# KVR400D2D4R3/4G

## 4GB 512M x 72-Bit DDR2-400
## CL3 Registered 240-Pin ECC DIMM

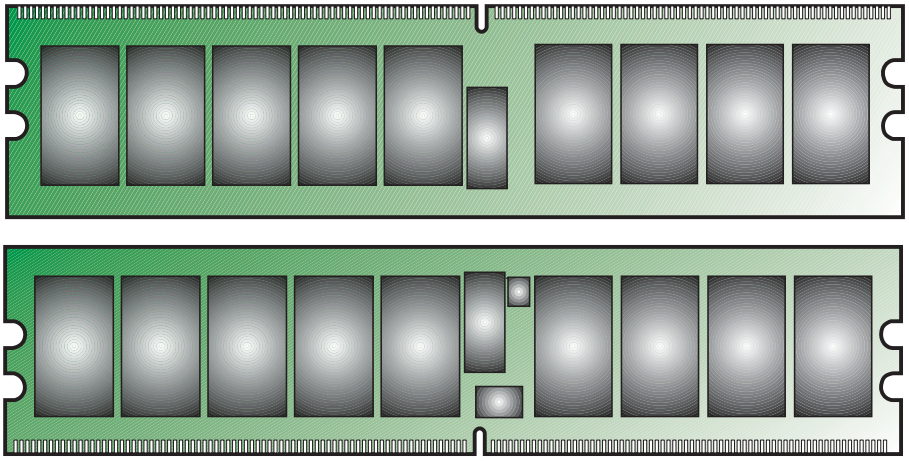
### DESCRIPTION:

This document describes ValueRAM's 512M x 72-bit 4GB (4096MB) DDR2-400 CL3 SDRAM (**S**ynchronous **DRAM**) "dual rank" registered ECC memory module.The components on this module include eighteen stacked 512M x 4-Bit (thirty-six 256M x 4-bit) DDR2-400 SDRAM. This 240-pin DIMM uses gold contact fingers and requires +1.8V. The electrical and mechanical specifications are as follows:

### FEATURES:

| | |
|---|---|
| ☑ Clock Cycle Time (tCK) CL=3 | 5ns (min.) / 8ns (max.) |
| ☑ Row Cycle Time (tRC) | 55ns (min.) |
| ☑ Refresh to Active/Refresh Command Time (tRFC) | 105ns |
| ☑ Row Active Time (tRAS) | 40ns (min.) / 70,000ns (max.) |
| ☑ Single Power Supply of | +1.8V (+/- .1V) |
| ☑ Power | 5.310 W (operating) |
| ☑ UL Rating | 94 V - 0 |

**Note:** The module defined in this data sheet is one of several configurations available under this part number. While all configurations are compatible, the DRAM combination and/or the module height may vary from what is described here. However, in no configuration will the module height exceed 1.250" (31.75mm).



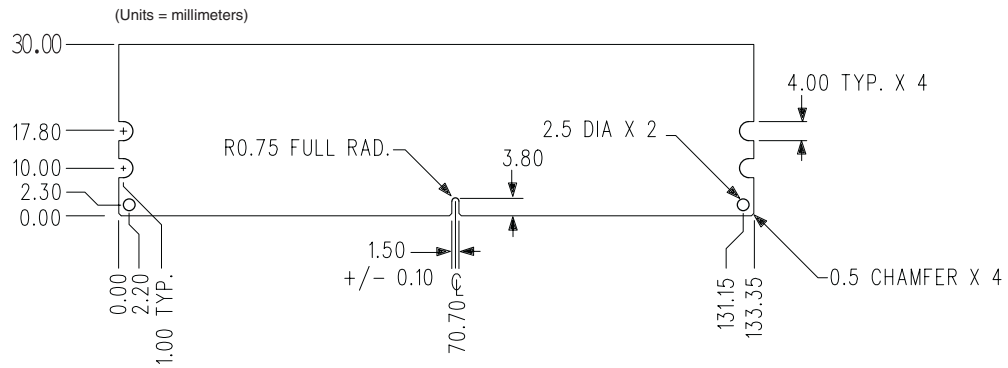



*Figure 1: KVR400D2D4R3/4G 240-Pin DIMM*